

Title (en)

Method and apparatus for assigning walsh codes

Title (de)

Verfahren und Vorrichtung zur Zuordnung von Walsh-Codes

Title (fr)

Procédé et dispositif d'attribution de codes d'étalement

Publication

EP 1843500 A1 20071010 (EN)

Application

EP 07014625 A 19991019

Priority

- EP 99956631 A 19991019
- US 17674098 A 19981020

Abstract (en)

A method is taught for transmitting message signals in a communication system having a new call entering the communication system and Walsh codes that can be active and inactive. The method includes dividing the Walsh codes into bins and determining the number of active Walsh codes in the bins. Selecting a Walsh code in accordance with the Walsh code number determination and assigning the selected Walsh code to the new call are set forth. The Walsh codes have indices and the Walsh codes are divided into bins according to the indices. The Walsh codes are divided into cycles according to the indices and if the number of bins is n the Walsh codes are divided into bins in accordance with the value of their indices modulo n . The minimum number of active Walsh codes in the bins is determined and the Walsh code is selected in accordance with the minimum number of active codes. A plurality of the bins can contain the minimum number of active Walsh codes. The method also sets forth selecting a bin of the plurality of bins containing the minimum number of active Walsh codes and selecting a Walsh code from the selected bin. A subset of the bins containing the minimum number of active Walsh codes is selected and a first predetermined bin with a preference lower than a preference for the remaining bins of the subset of the bins is selected.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (applicant)

WO 9503652 A1 19950202 - QUALCOMM INC [US]

Citation (search report)

- [X] WO 9503652 A1 19950202 - QUALCOMM INC [US]
- [A] WO 9708861 A1 19970306 - TERAYON CORP [US]
- [A] MO-HAN FONG ET AL: "Concatenated Orthogonal/PN Spreading Sequences and Their Application to Cellular DS-CDMA Systems with Integrated Traffic", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE SERVICE CENTER, PISCATAWAY, US, vol. 14, no. 3, April 1996 (1996-04-01), XP011054456, ISSN: 0733-8716

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DE FR GB

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WO 0024147 A1 20000427; AU 1319400 A 20000508; CN 1178415 C 20041201; CN 1354928 A 20020619; DE 69937156 D1 20071031; DE 69937156 T2 20080619; EP 1123593 A1 20010816; EP 1123593 B1 20070919; EP 1843500 A1 20071010; HK 1044245 A1 20021011; JP 2002528955 A 20020903; JP 4485688 B2 20100623; KR 100819988 B1 20080407; KR 20010080268 A 20010822; US 2002037015 A1 20020328; US 6314107 B1 20011106; US 7023872 B2 20060404

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